

**Claims Amendments: Version with Markings to Show Changes Made.**

1. (amended) A voice coil actuator arm comprising:

a head arm collection including a first head arm, a second head arm and a third head arm;

wherein each member of said head arms of said head arm collection is comprised of:

at least one ground plane formed in said head arm-collection member; and

a first and a second pair of coplanar, parallel transmission paths essentially parallel to said ground plane interconnecting both a read differential wire pair and a write differential wire pair to a head slider, respectively;

said first parallel transmission path pair interconnects to a disk drive read interface; and

said second parallel transmission path pair interconnects to a disk drive write interface.

3. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for at least one of said head arm-collection members; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for at least one of said head arm-collection members.

4. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for each of said head arm-collection members; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for each of said head arm-collection members.

9. (Amended) The method of Claim 8,

wherein said voice coil actuator arm is further comprised of a second head arm; and

said method is further comprised of the steps of:

said second head arm providing electrical interconnection between a third head slider and a third disk drive read interface and a third disk drive write interface ~~as in Claim 6.~~

10. (Amended) The method of Claim 9,

wherein said voice coil actuator arm is further comprised of a third head arm; and  
said method is further comprised of the steps of:

said third head arm providing electrical interconnection between a fourth head slider and a fourth disk drive read interface and a fourth disk drive write interface ~~as in Claim 6.~~

17. (Amended) The apparatus of Claim 16, further comprising:

a second head arm ~~as in Claim 15~~ interconnecting a third head slider, a third disk read interface and a third disk write interface.

18. (Amended) The apparatus of Claim 17, further comprising:

a third head arm ~~as in Claim 15~~ interconnecting a fourth head slider, a fourth disk read interface and a fourth disk write interface.

25. (Amended) The method of Claim ~~24~~,

~~wherein said head arm is a product of the process of Claim 2222.~~ further comprising the steps of:

providing a third differential signal path and a fourth differential signal path as essentially parallel, coplanar traces on said head arm traversing an essentially fixed distance parallel to said ground plane as a third differential trace pair and a fourth differential trace pair;

providing connectivity to a second head slider for a second read differential wire pair and for a second write differential wire pair via said third and said fourth differential trace pair, respectively;

providing connection to a second disk drive read interface via said third differential trace pair; and

providing connection to a second disk drive write interface via said fourth differential trace pair.

26. (Amended) The method of Claim ~~25~~,22,

wherein ~~said~~ voice coil actuator arm is ~~further~~ comprised of said head arm and a second head arm; and

said method is further comprised of the steps of:

manufacturing said second head arm to provide electrical interconnection between a third head slider and a third disk drive read interface and a third disk drive write interface ~~as in Claim 23~~.

27. (Amended) The method of Claim 26,

wherein said voice coil actuator arm is further comprised of a third head arm; and said method is further comprised of the steps of:

manufacturing said third head arm to provide electrical interconnection between a fourth head slider and a fourth disk drive read interface and a fourth disk drive write interface ~~as in Claim 23~~.

31. (New) Said voice coil actuator arm including said head arm, as a product of the process of Claim 24.

**Amendments to the Claims (unmarked up version):**

## 1. (amended) A voice coil actuator arm comprising:

a head arm collection including a first head arm, a second head arm and a third head arm;

wherein each of said head arms of said head arm collection is comprised of:

at least one ground plane formed in said head arm; and

a first and a second pair of coplanar, parallel transmission paths essentially parallel to said ground plane interconnecting both a read differential wire pair and a write differential wire pair to a head slider, respectively;

said first parallel transmission path pair interconnects to a disk drive read interface; and

said second parallel transmission path pair interconnects to a disk drive write interface.

## 3. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for at least one of said head arms; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for at least one of said head arms.

## 4. (Amended) The apparatus of Claim 1, further comprising:

an analog interface interconnecting said first parallel transmission path and said disk read interface, for each of said head arms; and

said analog interface interconnecting said second parallel transmission path and said disk write interface, for each of said head arms.

## 9. (Amended) The method of Claim 8,

wherein said voice coil actuator arm is further comprised of a second head arm; and

said method is further comprised of the steps of:

said second head arm providing electrical interconnection between a third head slider and a third disk drive read interface and a third disk drive write interface.

10. (Amended) The method of Claim 9,  
wherein said voice coil actuator arm is further comprised of a third head arm; and  
said method is further comprised of the steps of:  
said third head arm providing electrical interconnection between a fourth head slider and a fourth disk drive read interface and a fourth disk drive write interface.

17. (Amended) The apparatus of Claim 16, further comprising:  
a second head arm interconnecting a third head slider, a third disk read interface and a third disk write interface.

18. (Amended) The apparatus of Claim 17, further comprising:  
a third head arm interconnecting a fourth head slider, a fourth disk read interface and a fourth disk write interface.

25. (Amended) The method of Claim 22, further comprising the steps of:  
providing a third differential signal path and a fourth differential signal path as essentially parallel, coplanar traces on said head arm traversing an essentially fixed distance parallel to said ground plane as a third differential trace pair and a fourth differential trace pair;  
providing connectivity to a second head slider for a second read differential wire pair and for a second write differential wire pair via said third and said fourth differential trace pair, respectively;  
providing connection to a second disk drive read interface via said third differential trace pair; and  
providing connection to a second disk drive write interface via said fourth differential trace pair.

26. (Amended) The method of Claim 22,  
wherein a voice coil actuator arm is comprised of said head arm and a second head arm; and

said method is further comprised of the steps of:

manufacturing said second head arm to provide electrical interconnection between a third head slider and a third disk drive read interface and a third disk drive write interface.

27. (Amended) The method of Claim 26,

wherein said voice coil actuator arm is further comprised of a third head arm; and  
said method is further comprised of the steps of:

manufacturing said third head arm to provide electrical interconnection between a fourth head slider and a fourth disk drive read interface and a fourth disk drive write interface.

31. (New) Said voice coil actuator arm including said head arm, as a product of the process of Claim 24.